BUILDING TRUST

PRODUCT DATA SHEET

Sikaflex® CR 460

(formerly MSeal CR 460)

Two-part, polyurethane, chemical and traffic resistance joint filler

DESCRIPTION

Sikaflex® CR 460 is a two-part polyurethane joint filler. It is pourable and self-leveling. The Product is used together with Sika® Ucrete® P 460, a two-part clear polyurethane primer.

USES

Sikaflex® CR 460 is used for sealing induced joints in resin floors and around stainless steel channels and gullies. It is used in environments with heavy traffic and high levels of heat and chemical exposure.
Sikaflex® CR 460 is used for:
- Industrial floors and warehouses
- Food industry
- Civil engineering structures
- Metal industry

FEATURES

- Long working life
- Very good resistance to specific chemicals
- Very good mechanical and wear resistance
- Hygienic
- Non-tainting after curing
- Easy application

PRODUCT INFORMATION

Composition	Polyurethane
Packaging	3.0 kg
Shelf life	12 months from date of production
Storage conditions	The Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C. Always refer to the packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.
Density	1.6 kg/L (ISO 1183-1)

TECHNICAL INFORMATION

Shore A hardness	Cured 28 days at +20 °C	~80	(DIN 53505)
Tensile strength	Cured 28 days at +20 °C	1.6–2.0 N/mm²	(EN ISO 527-3)

Chemical resistance	Sikaflex® CR 460 has very good resistance to: ▪ Dilute mineral acids: chromic, hydrochloric, nitric, phosphoric and sulphuric ▪ Dilute alkalis ▪ Most dilute organic acids ▪ Fats, oils and sugars ▪ Mineral oils, most hydrocarbons, fuels, alcohols and salts ▪ Cleaning agents and detergents Sikaflex® CR 460 has limited resistance to: ▪ Concentrated mineral ▪ Organic acids ▪ Alkalis Sikaflex® CR 460 is not resistant to: ▪ Aggressive organic solvents such as xylene and acetone Contact Sika Technical Services for additional information.		
Elongation at break	Cured 28 days at +20 °C	20–23 %	(EN ISO 527-3)

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Poor adhesion due to inadequate surface preparation
Note: Primers are adhesion promoters. Primers cannot replace proper surface preparation and surface cleaning.
1. Do not use primers for improving poorly prepared or poorly cleaned joint surfaces.

IMPORTANT
Poor adhesion due to incorrect priming procedure
Incorrectly defined or uncontrolled priming procedures may lead to a variation in Product performance.
1. Test adhesion on project-specific substrates and agree on procedures with all parties before full project application. For more information contact Sika Technical Services.

The substrate must be sound, clean, dry and free of contaminants such as dirt, oil, grease, cement laitance, sealant residues and poorly bonded coatings which could affect adhesion of the primer and sealant.
The substrate must be of sufficient strength to withstand the stress induced by the sealant during movement.
1. Use techniques such as wire brushing, grinding, grit blasting or other suitable mechanical methods to remove all weak substrate material.
2. Repair all damaged joint edges with suitable Sika repair products.
3. Remove dust, loose and friable material from all surfaces before applying the sealant.

Use the following priming or pre-treatment procedures to ensure optimum adhesion and joint durability, or if the Product is used for high-performance applications such as joints on multi-storey buildings, highly stressed joints, or joints exposed to extreme weather.

MIXING

1. Using a slow speed stirrer, mix the content of the Part A pail for 30 seconds to disperse any separated material.
2. Add the content of the Part B.
3. IMPORTANT Do not mix excessively to minimise air entrainment. Mix the two parts for a further 1–2 minutes.
4. Ensure that no undispersed Part A is left on the side of the pail.

APPLICATION

IMPORTANT
Strictly follow installation procedures
Strictly follow installation procedures as defined in Method Statements, application manuals and working instructions which must always be adjusted to the ac-

tual site conditions.

1. Apply the primer to the substrate using a brush. A thin layer (± 100 µm) should be applied to the joint edges.
2. While the Sika® Ucrete® P 460 is still tacky (30 minutes to 2 hours, depending on the temperature), pour in the mixed Product to fill the joint flush to the surface. The Product can be applied on angled surfaces up to 2 % without slumping.
3. When the primer has become tack-free, apply a second coat before pouring the Product to ensure proper bonding.
4. Use a spatula to smooth the surface and remove trapped air.

CLEANING OF EQUIPMENT

Clean all tools and application equipment immediately after use with Sika® Remover-208 or Sika® Cleaning Wipes-100. Once cured, hardened material can only be removed mechanically.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

LEGAL NOTES

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or end-users of the product, have been given in good faith based on our own experiences and based on approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure, that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.

APPLICATION INFORMATION

Consumption	**Joint width**	**Joint depth**	**Coverage in g/linear meter**	**Coverage in linear meter/unit**
	7 mm	5 mm	55 g/m	55 m/unit
	10 mm	6 mm	100 g/m	30 m/unit
	15 mm	10 mm	235 g/m	13 m/unit
	20 mm	10 mm	320 g/m	9 m/unit
	30 mm	15 mm	720 g/m	4 m/unit
Backing material	Use closed cell, polyethylene foam backing rod.			
Sag flow	20 mm profile tested at +23 °C	< 2 mm		(EN ISO 7390)
Material temperature	Maximum		+40 °C	
	Minimum		+5 °C	
Ambient air temperature	Maximum		+40 °C	
	Minimum		+5 °C	
Dew point	The substrate temperature must be at least +3 °C above dew point to reduce the risk of condensation decreasing adhesion.			
Substrate temperature	Maximum		+40 °C	
	Minimum		+5 °C	
Pot Life	100–120 minutes			

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